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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/888,108	06/22/2001	Joel B. Linsky	5429P001	7961
27820 7	08/09/2005		EXAM	INER
WITHROW & TERRANOVA, P.L.L.C.			BUI, BING Q	
P.O. BOX 128	7			
CARY, NC 27512			ART UNIT	PAPER NUMBER
			2642	
		•	DATE MAILED: 08/09/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Office Action Summary Double Examiner Art Unit Examiner 2642		Application No.	Applicant(s)					
Bing Q. Bul - The MALLING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. He period for reply specified store is lost than thiny (30) days, a reply within the standary minimum of thiny (30) days, will be considered finely. He period for reply specified store is lost than thiny (30) days, a reply within the standary minimum of thiny (30) days, will be considered finely. He period for reply specified store is lost than thiny (30) days, a reply within the standary minimum of thiny (30) days, will be considered finely. He period for reply specified store is lost than thiny and the reply within the standary minimum of thiny (30) days, will be considered finely. However, the period for reply specified store is lost than the months after the making date of this communication. Provided the period for reply specified to reply specified to reply specified to reply specified for reply specified of this communication. A reply received by the Office later than three months after the making date of this communication, even if think (10), the replace of this communication. A present part is a politication in a condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 2-11 and 20-56 is/are pending in the application. 4) Claim(s) 2-11 and 20-56 is/are rejected. Claim(s) 3-12 and 20-56 is/are rejected. Claim(s) 4-12 and 20-56 is/are rejected. Claim(s) 5-12 and 20-56 is/ar								
Bing Q. Bui 2642	Office Action Summary	Examiner	Art Unit					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address − Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edutations to ten many be willing the desired the provision of 3 °C FR 1.136(a). In no event, however, may a riply be timely filled Education of the provision of the provision of 3 °C FR 1.136(a). In no event, however, may a riply be timely filled for the provision of the above claim(s)		Bina Q. Bui						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Editations of terminary be within the work of the provision of 37 CPR 1.396(a). In no event, however, may a reply be limitely filed Editation of terminary be visited by the communication of the provision of the provi		1 *						
THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be withered words the provision of 3 CFR 1.13(6). In no event, however, may a reply be timely filled after SIX (e) MCNTISS from the mailing date of his communication. It NO period for reply is spotdles under the provision of the communication of the communication of the communication of the communication of reply is spotdle to the patient of the communication. Fallure to reply within the set or extended period for reply will. by statute, cause the application to become ARANDONED (35 U.S.C. § 133). Any really reviewed by the Office the thin there maining date of this communication, even if firmly filled, may reduce any overage platent term subjectment. See 77 CFR 1.74(4). Status 1) Responsive to communication(s) filled on 23 February 2005. 2a) This action is FINAL. 2b) This action is non-final. 3) Isince this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 2-11 and 20-56 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. Claim(s) 2-11 and 20-56 is/are rejected. 7) Claim(s) is/are allowed. Claim(s) is/are allowed. Claim(s) is/are allowed. Claim(s) is/are objected to. 8) Claim(s) is/are objected to by the Examiner. 10) The specification is objected to by the Examiner. 10) The drawing(s) filled on 22 June 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTC-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) som	Period for Reply							
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DETAILED ACTION

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Response to Amendment

1. Applicant's Preliminary Amendment filed on 02/23/2005 has been entered. Claims 2, 4-5, 7, 9, 21-23, 25, 29, 33, 35, 38-42, 44, 46, 48-51 and 53-56 have been amended. Claims 1, 12-19 and 57-59 have been cancelled. No claims have been added. Claims 2-11 and 20-56 are still pending in this application, wherein claims 2, 20, 25, 38, 44 and 48 being independent.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 2-11 and 20-56 are rejected under 35 U.S.C: 102(b) as being anticipated by Herold et al (US Pat No. 4,893,094), herein after referred as Herold.

Regarding claim 2, referring to figures 1 and 4, Herold teaches a method for activating a deactivated frequency synthesizer comprising:

activating a voltage controlled oscillator (see col. 4, lns 41-col. 5, ln 15); allowing the voltage controlled oscillator to stabilize (see col. 4, lns 41-col. 5, ln 15);

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configuring a main frequency divider of the synthesizer operate as it had prior to deactivation of the synthesizer (see col. 4, lns 41-col. 6, ln 13); and

activating the main frequency divider (see col. 4, lns 41-col. 6, ln 13).

As to claims 3-11, 21-24, 26-37, 39-43, 45-47 and 49-56, note figures 1 and 4; and col. 4, ln 41-col. 6, ln 13).

As to claims 20 and 38, they are rejected for the same reasons set forth to rejecting claim 2.

Regarding claim 25, referring to figures 1 and 4, Herold teaches frequency synthesizer comprising:

a phase frequency detector to detect the phase difference between a first input signal and a second input signal and output a corresponding phase-error signal (see abstract; and figures 1 and 4; and col. 4, ln 41-col. 6, ln 13);

a first reference frequency source to coupled to the phase frequency detector and to provide a first frequency signal as the first input signal to the phase frequency detector (see abstract; and figures 1 and 4; and col. 4, In 41-col. 6, In 13);

a voltage controlled oscillator, coupled to the phase frequency detector to receive the phase-error signal from the phase frequency detector and generate an output signal at a corresponding frequency and phase (see abstract; and figures 1 and 4; and col. 4, ln 41-col. 6, ln 13); and

control logic to activate the synthesizer when a transmission is expected, configured to activate the voltage controlled oscillator, allow the voltage controlled oscillator to stabilize, inhibit the phase frequency detector, enable the first input signal to

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the phase frequency detector, enable the second input signal to the phase frequency detector, and activate the phase frequency detector (see abstract; and figures 1 and 4; and col. 4, In 41-col. 6, In 13).

Regarding claim 44, referring to figures 1 and 4, Herold teaches apparatus comprising:

means for deactivating a phase frequency detector (see abstract; and figures 1 and 4; and col. 3, ln 47-col. 6, ln 13);

means for providing a first signal to the phase frequency detector (see abstract; and figures 1 and 4; and col. 3, ln 47-col. 6, ln 13);

means for providing a second signal to the phase frequency detector such that the phase of the second signal initially lags the phase of the first signal (see abstract; and figures 1 and 4; and col. 3, ln 47-col. 6, ln 13); and

means for activating the phase frequency detector (see abstract; and figures 1 and 4; and col. 3, ln 47-col. 6, ln 13).

Regarding claim 48, referring to figures 1 and 4, Herold teaches method for conserving power comprising:

deactivating a synthesizer while not in use (see abstract; and figures 1 and 4; and col. 3, ln 47-col. 6, ln 13);

activating the synthesizer, including

configuring a main frequency divider to operate at a first desired frequency (see abstract; and figures 1 and 4; and col. 3, In 47-col. 6, In 13):

providing a reference signal to a phase frequency detector (see abstract; and figures 1 and 4; and col. 3, ln 47-col. 6, ln 13); and

activating the main frequency divider to provide an output signal to a phase frequency detector, the phase of the output signal lagging the phase of the reference signal to the phase frequency detector (see abstract; and figures 1 and 4; and col. 3, In 47-col. 6, In 13).

Allowable Subject Matter

- 4. The indicated allowability of claims 20-56 is withdrawn in view of the newly discovered reference(s) to Herold et al (US Pat No. 4,893,094). Rejections based on the newly cited reference(s) follow.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bing Bui whose telephone number is (571) 272-7482. The examiner can normally be reached on Monday through Thursday from 7:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar, can be reached on (571) 272-7488. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300 and for formal communications intended for entry (please label the response

□EXPEDITED PROCEDURE□) or for informal or draft communications not intended for entry (please label the response "PROPOSED" or "DRAFT").

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2600.

27 July 2005

BING Q. BUI PRIMARY EXAMINER